

**General Notes:**

1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code(IBC), the International Residential Code(IRC), the Texas Revisions and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3/16" annealed insulating glass.
4. Use structural or composite shims where required.
5. Installation methods can be interchanged within the same opening.
6. An impact protective system is required where wind borne debris protection is mandated by local building code.
7. Maximum sizes are buck sizes and do not include fin or flange.

**Installation Notes:**

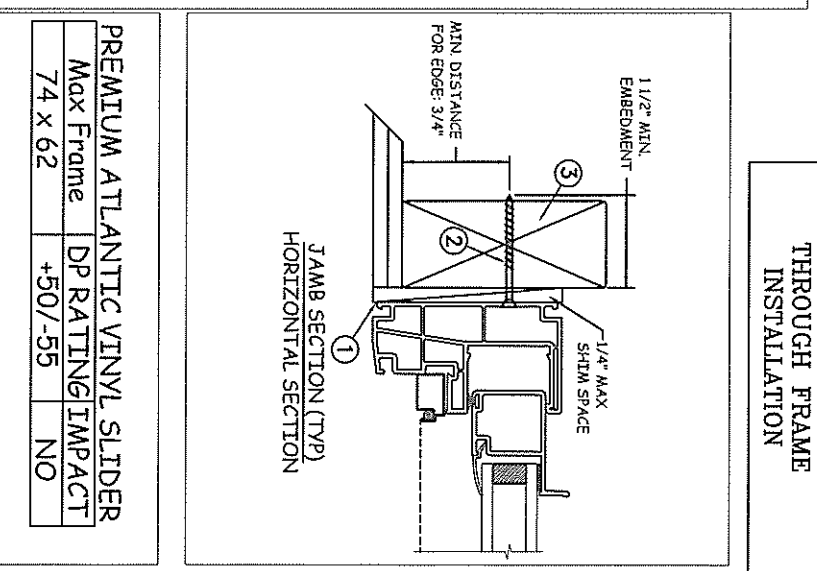
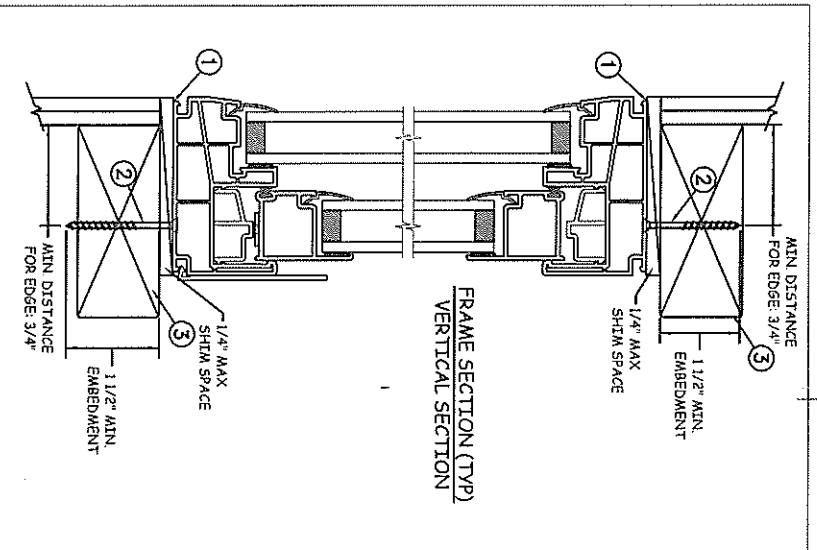
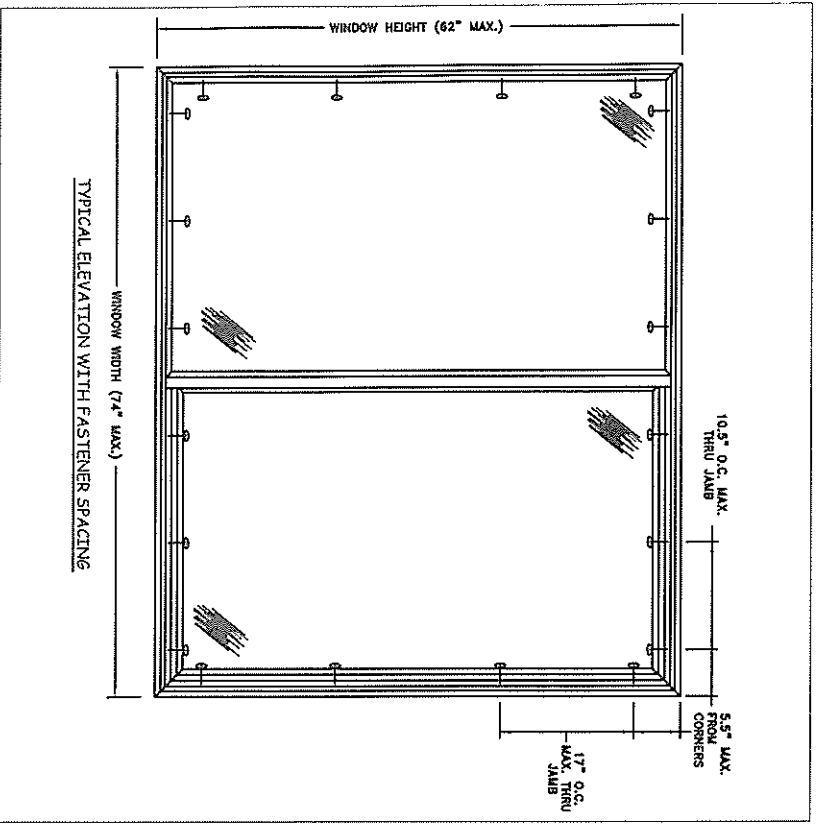
1. Seal flange/frame to substrate.
2. Use #10 PH or greater fastener through the nail fin with sufficient length to penetrate a minimum of 1 1/2" into the wood framing. For 2X wood frame substrate (min. S.G. = 0.42).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

This schedule addresses only the fasteners required to anchor the window to achieve the rated design pressure up to the size limitations noted. It is not intended as a guide to the installation process and does not address he sealing consideration that may arise in different wall conditions. For the complete installation procedure, see the instructions packaged with the window or go to [www.jeld-wen.com/resources/installation](http://www.jeld-wen.com/resources/installation).

**DISCLAIMER:**

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		<b>PROJECT ENGINEER:</b> DATE: 09/10/2013 SCALE: NTS <b>JELD-WEN</b> 3737 Lakewood Blvd Klamath Falls, OR, 97601 Phone: (541) 882-3451	
<b>DRAWN BY:</b> D. Vezo <b>CHECKED BY:</b> J. Kantola <b>APPROVED BY:</b> --	<b>PART/PROJECT NO.:</b> D009345 <b>IDENTIFIER NO.:</b> NCIL 210-3898-1A-1DI	<b>PLANT NAME AND LOCATION:</b> Premium Atlantic Vinyl Horizontal Slider Nail Fin Installation (74" x 62")	<b>CAD DWG. NO.:</b> REV: 00 <b>SHEET</b> 1 OF 4



PREMIUM ATLANTIC VINYL SLIDER			
Max Frame	DP RATING	IMPACT	
74 x 62	+50/-55	NO	

**Installation Notes:**

1. Seal flange/frame to substrate.
2. Use #10 PH or greater fastener through the frame with sufficient length to penetrate a minimum of 1 1/2" into the wood framing. For 2X wood frame substrate (min. S.G. = 0.42).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

**General Notes:**

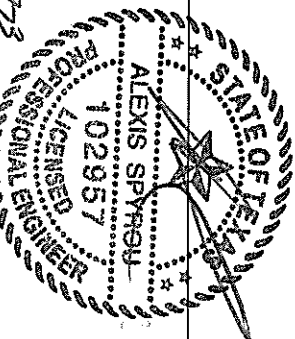
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3. At minimum, glazing shall be 3/16" annealed insulating glass.
4. Use structural or composite shims where required.
5. Installation methods can be interchanged within the same opening.
6. An impact protective system is required where wind borne debris protection is mandated by local building code.
7. Maximum sizes are buck sizes and do not include fin or flange.

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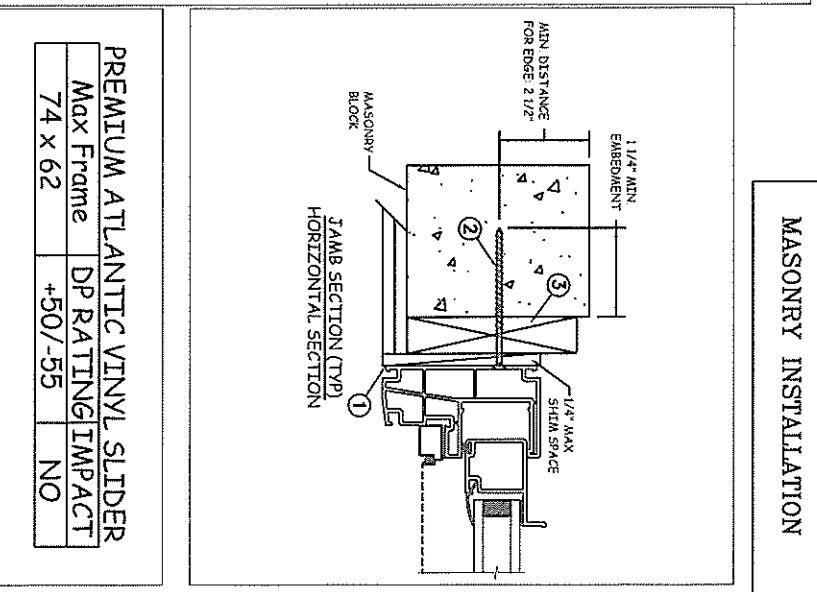
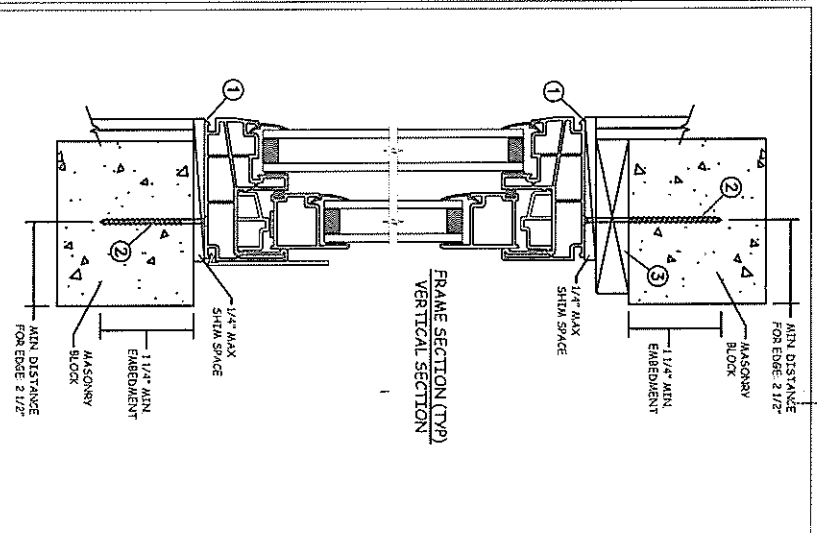
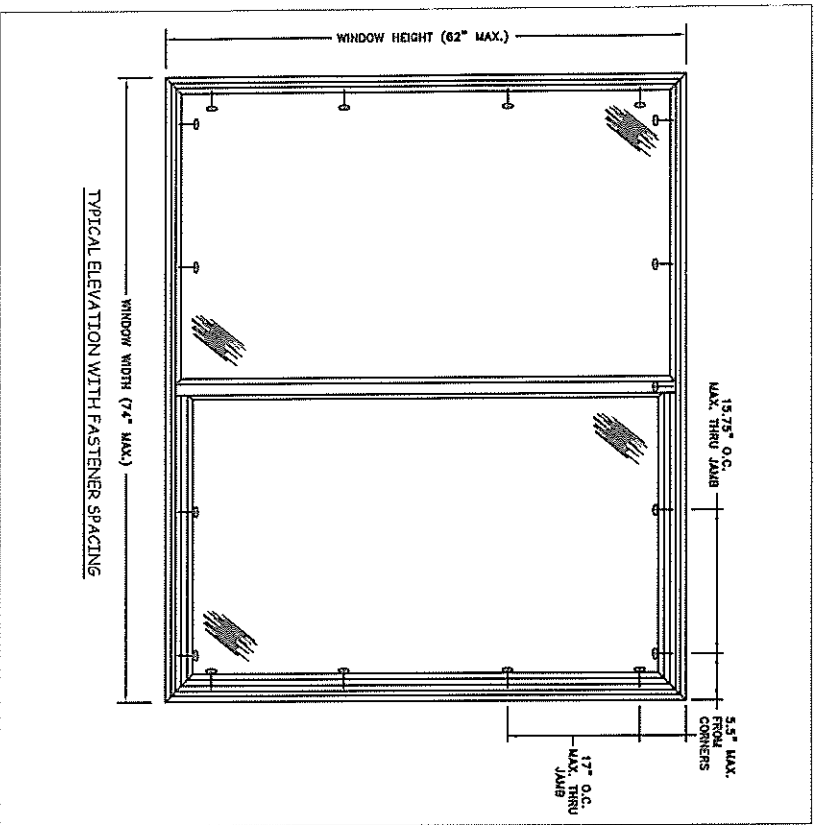


ALEXIS SPYROU, P.E.  
Texas P.E. No. 102957  
398 East Dania Beach Blvd., Suite 338  
Dania Beach, FL 33004

PROJECT ENGINEER:		DATE:	09/25/2013	
DRAWN BY:		SCALE:	NTS	
CHECKED BY:		J. Kantola		
APPROVED BY:		---		
PART/PROJECT NO.:	D009345			
IDENTIFIER NO.:	NCTL 210-3898-1A-1DI			
PLANT NAME AND LOCATION:	Premium Atlantic Vinyl Horizontal Slider Through Frame Installation (74" x 62")			
CAD DWG. NO.:	REV:	00	SHEET	2 OF 4

**JELD-WEN**

3737 Lakeport Blvd  
Klamath Falls, OR, 97601  
Phone: (541) 882-3451



PREMIUM ATLANTIC VINYL SLIDER			
Max Frame	DP RATING/IMPACT		
74 x 62	+50/-55	NO	

# MASONRY INSTALLATION

## General Notes:

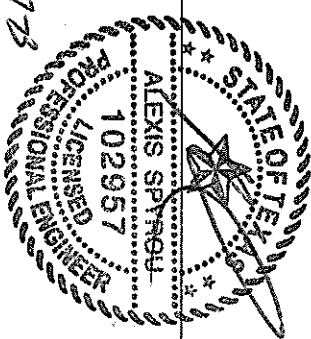
- The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code(IBC), the International Residential Code(IRC), the Texas Revisions and the industry requirement for the stated conditions.
- All glazing shall conform to ASTM E1300.
- At minimum, glazing shall be 3/16" annealed insulating glass.
- Use structural or composite shims where required.
- Installation methods can be interchanged within the same opening.
- An impact protective system is required where wind borne debris protection is mandated by local building code.
- Maximum sizes are buck sizes and do not include fin or flange.

## Installation Notes:

- Seal flange/frame to substrate.
- Use 3/16" Tapcon or equivalent fasteners through frame with sufficient length to penetrate a minimum of 1 1/4" into concrete or masonry at each location with a 2 1/2" min from edge distance. For concrete (min. f<sub>c</sub> = 3000psi) or masonry substrate (CMU shall conform to ASTM C90).
- Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

This schedule addresses only the fasteners required to anchor the window to achieve the rated design pressure up to the size limitations noted. It is not intended as a guide to the installation process and does not address he sealing consideration that may arise in different wall conditions. For the complete installation procedure, see the instructions packaged with the window or go to [www.jeld-wen.com/resources/installation](http://www.jeld-wen.com/resources/installation).

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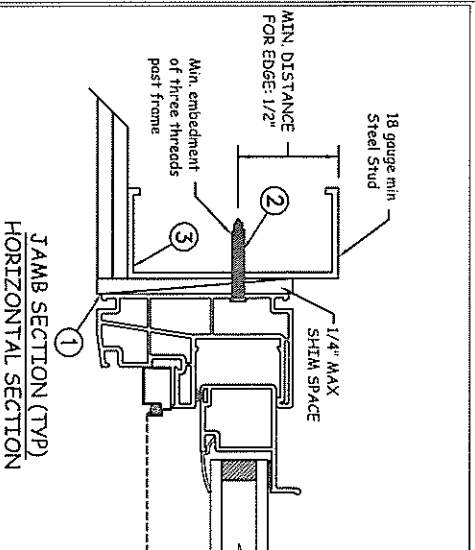
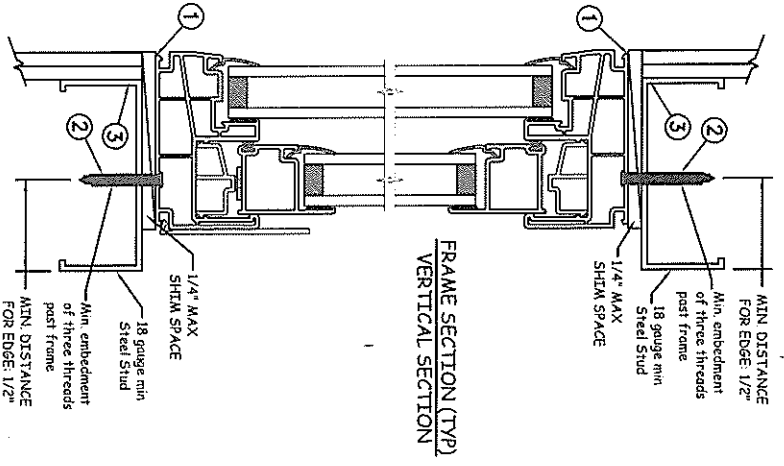
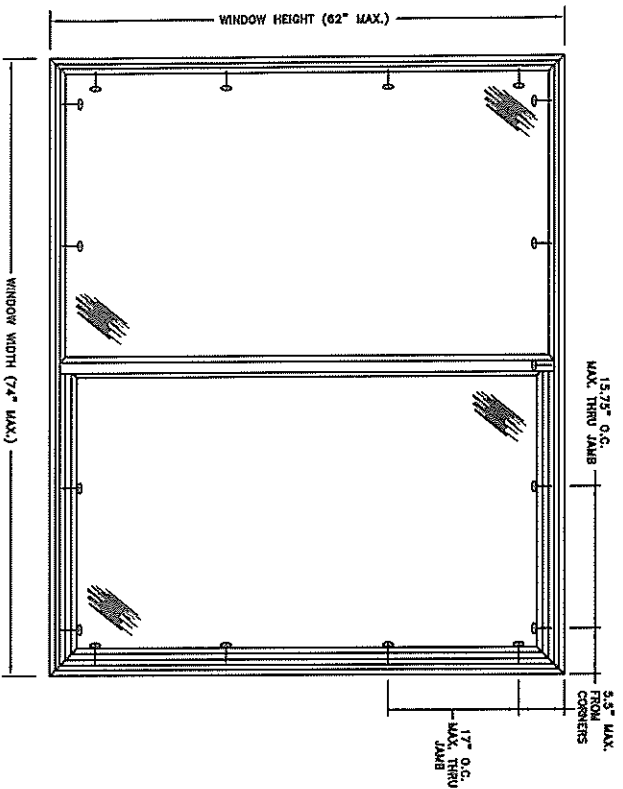
ALEXIS SPYROU, P.E.  
Texas P.E. No. 102957  
398 East Dade Beach Blvd.  
Dade Beach, FL 33004

PROJECT ENGINEER:	DATE:	09/10/2013	
DRAWN BY:	SCALE:	NTS	
CHECKED BY:	TITLE:	Premium Atlantic Vinyl Horizontal Slider	
APPROVED BY:		Masonry Installation (74" x 62")	
PART/PROJECT NO.:	PLANT NAME AND LOCATION:	CAD DWG. No.:	REV.:
D009345	NCIL 210-3898-1A-1DI		00
IDENTIFIER NO.			SHEET
			3 OF 4

**JELDWEN**

3737 Lakeport Blvd  
Klamath Falls, OR, 97601  
Phone: (541) 882-3451

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PREMIUM ATLANTIC VINYL SLIDER		
Max Frame	DP RATING	IMPACT
74 x 62	+50/-55	NO

#### General Notes:

- The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code(IBC), the International Residential Code(IRC), the Texas Revisions and the industry requirement for the stated conditions.
- All glazing shall conform to ASTM E1300.
- At minimum, glazing shall be 3/16" annealed insulating glass.
- Use structural or composite shims where required.
- Installation methods can be interchanged within the same opening.
- An impact protective system is required where wind borne debris protection is mandated by local building code.
- Maximum sizes are buck sizes and do not include fin or flange.

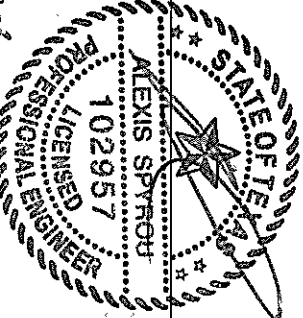
#### Installation Notes:

- Seal flange/frame to substrate.
- For anchoring into metal framing use #10 TEK Self Tapping screws with sufficient length to achieve a minimum embedment of three threads past the frame thickness. Steel substrate min. 18ga., fy = 33 ksi.
- Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

This schedule addresses only the fasteners required to anchor the window to achieve the rated design pressure up to the size limitations noted. It is not intended as a guide to the installation process and does not address the sealing consideration that may arise in different wall conditions. For the complete installation procedure, see the instructions packaged with the window or go to [www.jeld-wen.com/resources/installation](http://www.jeld-wen.com/resources/installation).

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ALEXIS SPYROR, P.E.  
Texas P.E. No. 102957  
388 East Dante Beech Blvd., Suite 338  
Dante Beech, FL 33004

PROJECT ENGINEER:		DATE:	09/10/2013	
DRAWN BY:		SCALE:	NTS	
CHECKED BY:		J. Kantola		
APPROVED BY:		---		
PART/PROJECT NO.:	D009345			
IDENTIFIER NO.:	NCIL 210-3898-1A-1DI			
PLANT NAME AND LOCATION:	Premium Atlantic Vinyl Horizontal Slider			
CAD DWG. No.:	REV: 00			
SHEET		4 OF 4		

**JELD-WEN**

3737 Lakeport Blvd  
Klamath Falls, OR, 97601  
Phone: (541) 882-3451

Steel Installation (74" x 62")



# BUILDING DROPS

A Perfect Solution in Every Drop

TBPE Firm #13734

398 East Dania Beach Blvd.  
Suite 338  
Dania Beach, FL 33004  
954.399.8478 PH  
954.744.4738 FX  
contact@buildingdrops.com

## Product Evaluation Report *of*

**JELD-WEN, Inc.**  
**Premium Atlantic Vinyl Horizontal Slider**

*for*

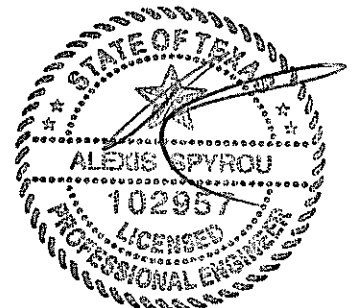
**Texas Department of Insurance**  
**Report No. 2509**

**Product:** *Premium Atlantic Vinyl Horizontal Slider*  
**Material:** Vinyl (PVC)  
**Product Dimensions:** 74.0" x 62.0" (OX)

**Prepared For:**  
**JELD-WEN, inc.**  
**3737 Lakeport Blvd.**  
**Klamath Falls, OR. 97601**

**Prepared by:**  
**Alexis Spyrou, P.E.**  
Texas Professional Engineer # 102957  
Date: 09/12/2013

Contents:  
Evaluation Report      Pages 1 – 4  
Appendix                Pages 5 – 12



10-773



# BUILDING DROPS

A Perfect Solution in Every Drop  
TBPE Firm #13734

Date: 09/26/2013  
Report No: 2509

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**Manufacturer:** JELD-WEN, Inc.

**Product Name:** Premium Atlantic Vinyl Horizontal Slider  
(Non-Impact)  
74.0" x 62.0" (OX)

**Scope:** This is a Product Evaluation Report issued by Alexis Spyrou, P.E. (TX # 102957) for JELD-WEN, inc. based on the Texas Department of Insurance.

Alexis Spyrou, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the International Building Code (IBC), International Residential Code (IRC), and the Texas Revisions.

See Installation Instructions **NCTL 210-3898-1A-TDI**, signed and sealed by Alexis Spyrou, P.E. (TX # 102957) for specific use parameters.

**Limits of Use:**

1. This product has been evaluated and is in compliance with the IBC, IRC, and Texas Revisions.
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product does require an impact resistant covering.
4. Site conditions that deviate from the details of drawing **NCTL 210-3898-1A-TDI** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **NCTL 210-3898-1A-TDI** for size and design pressure limitations.



# BUILDING DROPS

A Perfect Solution in Every Drop

TBPE Firm #13734

Date: 09/26/2013

Report No: 2509

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**Quality Assurance:** The manufacturer has demonstrated compliance for manufacturing under a quality assurance program audited by an approved quality assurance entity through **American Architectural Manufacturers Association**.

**Performance Standards:** The product described herein has been tested per:

- AAMA/WDMA/CSA 101/I.S.2/A440-11
- AAMA/WDMA/CSA 101/I.S.2/A440-08
- AAMA/WDMA/CSA 101/I.S.2/A440-05

**Referenced Data:**

1. Product Testing performed by **National Certified Testing Laboratories, Inc.**  
Report #: NCTL-210-3898-1A, Report Date: 7/11/2013
2. Certification Agency:  
**American Architectural Manufacturers Association**

Products described herein are tested in accordance with standards listed above as required by the International Building Code and does require an impact resistant covering.



# BUILDING DROPS

A Perfect Solution in Every Drop  
TBPE Firm #13734

Date: 09/26/2013  
Report No: 2509

**Through Frame Installation:** 1. Approved anchor types and substrates are as follows:

- A. For wood substrates use **(1) #10 Wood Screw** type installation anchors per location of sufficient length to achieve a minimum embedment of 1.50" into the wood substrate.
- B. For concrete (Min.  $f'c = 3000$  psi) or masonry substrate (Min.  $f'c = 1500$  psi) where one by (1X), non-structural, wood bucking is employed, use **(1) 3/16" diameter ITW Tapcon** type concrete screw anchors per location of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- C. For concrete (Min.  $f'c = 3000$  psi) or masonry substrate (Min.  $f'c = 1500$  psi) where wood bucking is NOT employed, use **(1) 3/16" diameter ITW Tapcon** type concrete screw anchors per location of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- D. For steel substrate, use **(1) #10 ITW TEK Screw** type steel frame (min. 18ga.) anchors per location of sufficient length to achieve minimum three threads of penetration beyond steel structure.

**Nail Fin Installation (Where applicable):**

- A. For wood substrates use **(1) #10 Wood Screw** type installation anchors per location of sufficient length to achieve a minimum embedment of 1.50" into the wood substrate.

Refer to Installation Instructions (NCTL 210-3898-1A-TDI) for anchor spacing and more details of the installation requirements.

**Design Pressure:**

Configuration	Design Pressure
ALL	+50.0 / -55.0 PSF

**Installation Methods:**

Refer to Installation Instructions (NCTL 210-3898-1A-TDI) for installation methods, anchor locations, and more details of the installation requirements.



## **BUILDING DROPS**

**A Perfect Solution in Every Drop**  
TBPE Firm #13734

Date: 09/26/2013  
Report No: 2509

---

# **APPENDIX**

**(INCLUDES SEVEN (7) PAGES OF CALCULATIONS)**

## #10 Wood Screw into Spruce-Pine-Fir w/ 0 in. of Gap Space.

Wood Screw Type = #10 Wood Screw  
 Wood Screw Length = 2.00 in  
 Wood Screw Embedment = 1.50 in  
 Wood Screw Thread Length = 1.33 in  
 D = 0.190 in , Dowel Diameter  
 D<sub>m</sub> = 0.152 in , Dowel Diameter at max. stress in main member  
 D<sub>s</sub> = 0.152 in , Dowel Diameter at max. stress in side member  
 F<sub>b</sub> = 90,000 psi , Dowel bending strength

### Wood Screw Withdrawal Calculations

Substrate: Spruce-Pine-Fir  
 Tabulated withdrawal design value: W = 95 lbs  
 Penetration Factor: C<sub>p</sub> = 1.33 in (based on 2/3 screw length)  
 Duration Factor: C<sub>D</sub> = 1.60

Withdrawal Allowable (W') = 202.0 lbs

### Wood Screw Lateral Calculations

Substrate (Main Member): Spruce-Pine-Fir

Frame (Side Member): PVC

Cantilever Distance: 0.25 in , Frame hollow space + shim  
 g: 0 in , Gap between members (if applicable cantilever/2)

l<sub>m</sub> = 1.500 in , Main member dowel bearing length  
 l<sub>s</sub> = 0.065 in , Side member dowel bearing length  
 F<sub>em</sub> = 3,364 psi , Main member dowel bearing strength  
 F<sub>es</sub> = 9,137 psi , Side member dowel bearing strength  
 q<sub>m</sub> = 639 lbs/in , Main member dowel bearing resistance = F<sub>em</sub>D  
 q<sub>s</sub> = 1,736 lbs/in , Side member dowel bearing resistance = F<sub>es</sub>D  
 M<sub>m</sub> = 52.68 in-lbs , Main member dowel moment resistance = F<sub>b</sub>(D<sub>m</sub><sup>3</sup>/6)  
 M<sub>s</sub> = 52.68 in-lbs , Side member dowel moment resistance = F<sub>b</sub>(D<sub>s</sub><sup>3</sup>/6)  
 θ = 90 degrees , Maximum angle of load to grain (0° ≤ θ ≤ 90°) for any member in a connection  
 K<sub>θ</sub> = 1.258  
 K<sub>D</sub> = 2.200

		Single Shear		Double Shear		
Mode I <sub>m</sub>	Z <sub>I</sub> =	958.81	lbs	958.81	lbs	, Main Member Bearing
				2.20		, Reduction Term
Mode I <sub>m</sub>	Z <sub>I</sub> =	435.82	lbs	435.82	lbs	
Mode I <sub>s</sub>	Z <sub>I</sub> =	112.84	lbs	225.68	lbs	, Side Member Bearing
				2.20		, Reduction Term
Mode I <sub>s</sub>	Z <sub>I</sub> =	51.29	lbs	102.58	lbs	

Mode II	$Z_{II} =$	368.81	lbs				, Side and Main Member Bearing
	A =	0.0005					
	B =	0.783					
	C =	-361.39					
				2.20			, Reduction Term
Mode II	$Z_{II} =$	167.64	lbs				
Mode III <sub>m</sub>	$Z_{III} =$	402.76	lbs				, Main Member Bearing and Dowel Yielding in the Side Member
	A =	0.0007					
	B =	0.750					
	C =	-412.23					
				2.20			, Reduction Term
Mode III <sub>m</sub>	$Z_{III} =$	183.07	lbs				
Mode III <sub>s</sub>	$Z_{III} =$	225.68	lbs	451.37	lbs		, Side Member Bearing and Dowel Yielding in the Main Member
	A =	0.0009					
	B =	0.033					
	C =	-54.51					
				2.20			, Reduction Term
Mode III <sub>s</sub>	$Z_{III} =$	102.58	lbs	205.17	lbs		
Mode IV	$Z_{IV} =$	313.75	lbs	627.50	lbs		, Dowel Yielding in the Side and Main Member
	A =	0.0011					
	B =	0.000					
	C =	-105.35					
				2.20			, Reduction Term
Mode IV	$Z_{IV} =$	142.61	lbs	285.23	lbs		
	$C_d =$	1.6					, Load Duration
	$C_p =$	1.000					, Penetration Factor

Single Lateral Allowable ( $Z'_s$ ) = 82.0669 lbs  
 Double Lateral Allowable ( $Z'_d$ ) = 164.134 lbs

Report #: 2509

Date: 9/26/2013

## Product Evaluation Report

Jeld-Wen Inc.

Premium Atlantic Vinyl XO Horizontal Slider Window

### Masonry/Concrete Anchor Calculations

Fastener type: 3/16" ITW Tapcon

Substrate: CMU

Reference: NOA #03-0114.03

Minimum embedment: 1.25 in

Minimum edge distance: 2.50 in

Allowable Design Value:  $Z' = 197$  lbs / anchor

Fastener type: 3/16" ITW Tapcon with minimum embedment of 1.25 in

Shank Diameter:  $D = 0.171$  in

Cantilever distance: 0.25 in

Moment arm: 0.00 in

Allowable bending stress:  $F_b = 69.00$  ksiActual bending stress:  $f_b = 0.00$  ksiBending Yield strength:  $F_y = 92.00$  ksiUltimate strength:  $F_u = 120.00$  ksiAllowable shear stress:  $F_v = 20.40$  ksiActual shear stress:  $f_v = 20.40$  ksiCombined bending plus shear:  $(f_b/F_b) + (f_v/F_v) = 1.0 \leq 1.0$ 

Maximum design value in cantilever: 469 lbs / anchor

Minimum anchor capacity: 197 lbs / anchor

## Product Evaluation Report

Jeld-Wen, Inc.

Premium Atlantic Vinyl XO Horizontal Slider Window

### Steel Stud Anchor Calculations

Fastener type: #10 Tek Screw

Substrate: 18 Steel Gauge

Referecne: NOA

Minimum embedment: 3 pitches of thread

Allowable Design Value:  $Z' = 316 \text{ lbs} / \text{anchor}$

Fastener type: #10 Tek Screw

with min. engagement of 3 pitches of thread in cantilever

Shank Diameter:  $D = 0.152 \text{ in}$

Cantilever distance:  $0.25 \text{ in}$

Moment arm:  $0.00 \text{ in}$

Allowable bending stress:  $F_b = 69 \text{ ksi}$

Actual bending stress:  $f_b = 0 \text{ ksi}$

Bending Yield strength:  $F_y = 92.00 \text{ ksi}$

Ultimate strength:  $F_u = 120.00 \text{ ksi}$

Allowable shear stress:  $F_v = 20.40 \text{ ksi}$

Actual shear stress:  $f_v = 20.40 \text{ ksi}$

Combined bending plus shear:  $(f_b/F_b) + (f_v/F_v) = 1.0 \leq 1.0$

Maximum design value in cantilever:  $370 \text{ lbs} / \text{anchor}$

Minimum anchor capacity:  $316 \text{ lbs} / \text{anchor}$

Minimum anchor capacity per Substrate:

Steel Stud Anchor

$316 \text{ lbs} / \text{anchor}$

Report #: 2509

Date: 9/26/2013

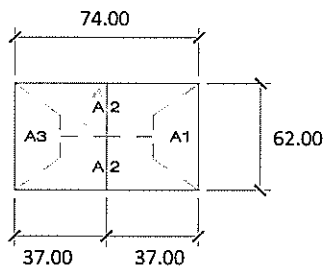
## Product Evaluation Report

Jeld-Wen, Inc.

Premium Atlantic Vinyl XO Horizontal Slider Window

### Anchor Capacity Calculations (XO): (AS TESTED)

Design pressure: 55.0 psf

Window Total Area: 31.86 ft<sup>2</sup>

Zone	Area (ft <sup>2</sup> )	Load (lbs)	From Corner Distance (in)	Max. O.C. (in)	Anchor	
					Cap. (lbs)	Qty
A <sub>1</sub>	5.59	307.4	5.5	17.0	76.8	4
A <sub>2</sub>	10.34	568.8	5.5	15.8	113.8	5
A <sub>3</sub>	5.59	307.4	5.5	17.0	76.8	4

Minimum anchor capacity per Substrate:

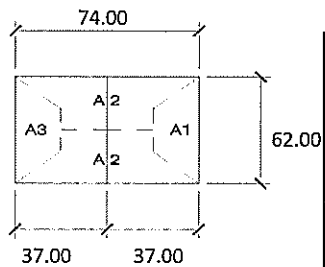
LIMITING CAPACITY---&gt;

Wood	82	lbs	/	anchor
Masonry	197	lbs	/	anchor
Steel Stud	316	lbs	/	anchor

### Anchor Capacity Calculations (XO):

Substrate of installation: Wood

Design pressure: 55.0 psf

Window Total Area: 31.86 ft<sup>2</sup>

Zone	Area (ft <sup>2</sup> )	Load (lbs)	From Corner Distance (in)	Max. O.C. Spacing (in)	Anchor			Result
					Cap. (lbs)	Qty	Load (lbs)	
A <sub>1</sub>	5.59	307.4	5.5	17.0	82	4	76.8	OK
A <sub>2</sub>	10.34	568.8	5.5	10.5	82	7	81.3	OK
A <sub>3</sub>	5.59	307.4	5.5	17.0	82	4	76.8	OK

Report #: 2509

Date: 9/26/2013

## Product Evaluation Report

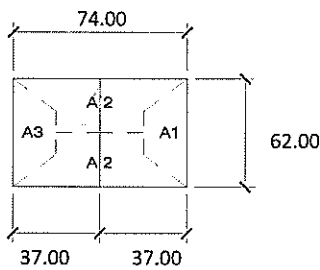
Jeld-Wen, Inc.

Premium Atlantic Vinyl XO Horizontal Slider Window

### Anchor Capacity Calculations (XO):

Substrate of installation: Masonry

Design pressure: 55.0 psf



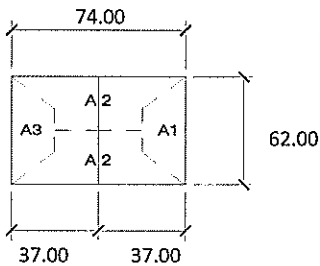
Window Total Area: 31.86 ft<sup>2</sup>

Zone	Area (ft <sup>2</sup> )	Load (lbs)	From Corner Distance (in)	Max. O.C. Spacing (in)	Anchor			Result
					Cap. (lbs)	Qty	Load (lbs)	
A <sub>1</sub>	5.59	307.4	5.5	17.0	197	4	76.8	OK
A <sub>2</sub>	10.34	568.8	5.5	15.8	197	5	113.8	OK
A <sub>3</sub>	5.59	307.4	5.5	17.0	197	4	76.8	OK

### Anchor Capacity Calculations (XO):

Substrate of installation: Steel Stud

Design pressure: 55.0 psf



Window Total Area: 31.86 ft<sup>2</sup>

Zone	Area (ft <sup>2</sup> )	Load (lbs)	From Corner Distance (in)	Max. O.C. Spacing (in)	Anchor			Result
					Cap. (lbs)	Qty	Load (lbs)	
A <sub>1</sub>	5.59	307.4	5.5	17.0	316	4	76.8	OK
A <sub>2</sub>	10.34	568.8	5.5	15.8	316	5	113.8	OK
A <sub>3</sub>	5.59	307.4	5.5	17.0	316	4	76.8	OK

Report #: 2509

Date: 9/26/2013

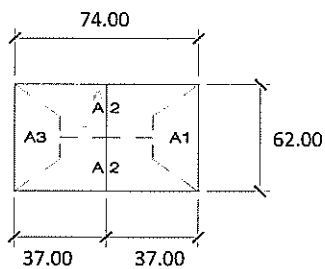
## Product Evaluation Report

Jeld-Wen, Inc.

Premium Atlantic Vinyl XO Horizontal Slider Window

Anchor Capacity Calculations (XO): (AS TESTED)

Design pressure: 55.0 psf

Window Total Area: 31.86 ft<sup>2</sup>

Zone	Area (ft <sup>2</sup> )	Load (lbs)	From Corner Distance (in)	Max. O.C. (in)	Anchor	
					Cap. (lbs)	Qty
A <sub>1</sub>	5.59	307.4	4.5	13.3	61.5	5
A <sub>2</sub>	10.34	568.8	4.5	16.3	113.8	5
A <sub>3</sub>	5.59	307.4	4.5	13.3	61.5	5

Minimum anchor capacity per Substrate:

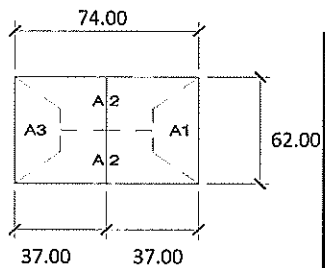
LIMITING CAPACITY--&gt;

Wood 202 lbs / anchor

Anchor Capacity Calculations (XO):

Substrate of installation: Wood

Design pressure: 55.0 psf

Window Total Area: 31.86 ft<sup>2</sup>

Zone	Area (ft <sup>2</sup> )	Load (lbs)	From Corner Distance (in)	Max. O.C. Spacing (in)	Anchor			Result
					Cap. (lbs)	Qty	Load (lbs)	
A <sub>1</sub>	5.59	307.4	4.5	13.3	202	5	61.5	OK
A <sub>2</sub>	10.34	568.8	4.5	16.3	202	5	113.8	OK
A <sub>3</sub>	5.59	307.4	4.5	13.3	202	5	61.5	OK